

CAMBRIDGE

# English Grammar in Use Supplementary Exercises

with answers

To accompany *English Grammar in Use Fourth Edition*

**Louise Hashemi**  
with Raymond Murphy

# **English Grammar in Use**

## **Supplementary Exercises**

### **with Answers**

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**Cambridge University**  
**Press**

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The following table shows the results of the regression analysis for the dependent variable "Number of children" (Y-axis) and the independent variable "Age" (X-axis). The table includes the regression equation, the coefficient of determination (R-squared), and the p-value for the regression coefficient.

Variable	Regression Equation	R-squared	p-value
Age	$Y = 0.05X + 1.5$	0.15	0.001

The regression equation indicates that for every unit increase in age, the number of children increases by 0.05 units. The R-squared value of 0.15 suggests that 15% of the variance in the number of children is explained by age. The p-value of 0.001 indicates that the regression coefficient is statistically significant at the 0.001 level.

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Variable	Regression Equation	R-squared	p-value
Age	$Y = 0.15X + 1.2$	0.85	0.001

The regression equation indicates that for every unit increase in age, the number of children increases by 0.15 units. The R-squared value of 0.85 suggests that 85% of the variance in the number of children is explained by age. The p-value of 0.001 indicates that the regression coefficient is statistically significant at the 0.05 level.

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The regression equation indicates that for every unit increase in age, the number of children increases by 0.15 units. The R-squared value of 0.85 suggests that 85% of the variance in the number of children is explained by age. The p-value of 0.001 indicates that the regression coefficient is statistically significant at the 0.05 level.

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The following table shows the results of the regression analysis for the dependent variable "Number of children" (Y) and the independent variable "Age" (X). The regression equation is  $Y = 0.15X + 1.2$ . The coefficient of determination is  $R^2 = 0.85$ . The standard error of the estimate is 0.3. The t-statistic for the slope coefficient is 4.5, and the p-value is 0.0001. The intercept is 1.2, and its t-statistic is 1.5, with a p-value of 0.15.

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